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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/075,640	02/13/2002	Michael Nuttall	500803.02	9841
7	590 05/16/2006		EXAMINER	
Paul F. Rusyn, Esq. DORSEY & WHITNEY LLP			VU, DAVID	
Suite 3400	TITTINET EET		ART UNIT PAPER NUMBER	
1420 Fifth Avenue			2818	
Seattle, WA	98101		DATE MAILED: 05/16/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/075,640	NUTTALL ET AL.					
Office Action Summary	Examiner	Art Unit					
·	DAVID VU	2818					
The MAILING DATE of this commu Period for Reply	nication appears on the cove	sheet with the correspondence a	ddress				
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMMUN  - Extensions of time may be available under the provision after SIX (6) MONTHS from the mailing date of this con  - If the period for reply specified above is less than thirty If NO period for reply is specified above, the maximum  - Failure to reply within the set or extended period for repl  - Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b).	IICATION. as of 37 CFR 1.136(a). In no event, howo munication. (30) days, a reply within the statutory min statutory period will apply and will expire by will, by statute, cause the application to	ever, may a reply be timely filed  imum of thirty (30) days will be considered time SIX (6) MONTHS from the mailing date of this of become ABANDONED (35 U.S.C. § 133).	ely. communication.				
Status	Staden OC March 2000						
1) Responsive to communication(s)							
2a)⊠ This action is <b>FINAL</b> .	2b) ☐ This action is non-fi						
3) Since this application is in condition closed in accordance with the practice of Claims	on for allowance except for fo ctice under <i>Ex parte Quayl</i> e,	mal matters, prosecution as to t 1935 C.D. 11, 453 O.G. 213.	he ments is				
4)⊠ Claim(s) <u>38,45-51 and 62</u> is/are p	ending in the application.						
,—	4a) Of the above claim(s) is/are withdrawn from consideration.						
6)⊠ Claim(s) <u>38,45-51 and 62</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to resti	iction and/or election require	ment.					
Application Papers	•						
9)☐ The specification is objected to by t	he Examiner.						
10)⊠ The drawing(s) filed on 13 Februar	<u>/ 2002</u> is/are: a)⊠ accepted o	r b)⊡ objected to by the Examiner	r.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12)☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)□ All b)□ Some * c)□ None of							
<ol> <li>Certified copies of the priorit</li> </ol>	1. Certified copies of the priority documents have been received.						
2. Certified copies of the priorit	2. Certified copies of the priority documents have been received in Application No						
<ul> <li>3. Copies of the certified copie</li> <li>application from the Inte</li> <li>* See the attached detailed Office act</li> </ul>	rnational Bureau (PCT Rule	ave been received in this Nationa 17.2(a)). opies not received.	al Stage				
14)☐ Acknowledgment is made of a claim			al application).				
a) The translation of the foreign I	anguage provisional applicat	ion has been received.					
Attachment(s)							
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review</li> <li>Information Disclosure Statement(s) (PTO-1449)</li> </ol>		Interview Summary (PTO-413) Paper N Notice of Informal Patent Application (P Other:					

#### **DETAILED ACTION**

### **Drawings**

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, "the two sidewall surfaces do not abut another surface" must be shown or the features canceled from the claim 38. No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

# Claim Rejections - 35 USC § 112

- 2. Claim 38 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Where applicant acts as his or her own lexicographer to specifically define a term of a claim contrary to its ordinary meaning, the written description must clearly redefine the claim term and set forth the uncommon definition so as to put one reasonably skilled in the art on notice that the applicant intended to so redefine that claim term. *Process Control Corp. v. HydReclaim Corp.*, 190 F.3d 1350, 1357, 52 USPQ2d 1029, 1033 (Fed.

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Cir. 1999). The term "abut" in claim 38 is used by the claim to mean "non-free standing", while the accepted meaning is "to border on or touch". The term is indefinite because the specification does not clearly redefine the term.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 38 and 45, 46, 49 and 62 are rejected under 35 U. S. C. 102(e) as being anticipated by Teo et al. (US 6,204,137, herein after Teo).

Teo discloses in figs. 10-13 an in-process semiconductor structure, comprising: a monocrystalline silicon substrate 70; a substrate 70 including a plurality of transistors (fig. 13 and col. 6, lines 18-33), each transistor including a pair of active regions (source /drain region 110) formed within the substrate and having a channel region defined between each pair of active regions (source/drain region 110); a plurality of isolation oxide regions (STI structure 86) adjacent the active regions, each isolation oxide region 86 being positioned between adjacent active regions to isolate adjacent active regions; and at least one selectively formed single crystal contact 111 by epitaxially grown on

each active region, each selectively formed single crystal contact 111 being isolated from single crystal contacts on adjacent active regions, each selectively formed single crystal contact 111 having a convex upper surface intersected by two sidewall surfaces, the two sidewalls surfaces being substantially perpendicular to an upper surface of the active region.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 47, 48, 50 and 51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Teo (US 6,204,137) in view of White, Jr. et al., (US 6,130,102, herein after White, Jr.).

Teo discloses all claimed subject matter, but fails to expressly mention the substrate comprises silicon germanium or gallium arsenide.

White, Jr., in related text (col. 3, lines 26-31) discloses the substrate comprises silicon germanium or gallium arsenide. It would have been obvious to one of ordinary skill in the art at the time the invention was made for using the substrate materials as taught by White, Jr. since the material such as silicon germanium or gallium arsenide is

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recognized equivalent material for forming the substrate in a method of manufacturing a semiconductor device.

### **Response to Arguments**

6. Applicant's arguments filed 03/06/06 have been fully considered but they are not persuasive.

Applicant argues that the prior art (Teo) does not teach the two sidewall surfaces do not <u>abut</u> another surface. This argument is not convincing, especially since the specification does not clearly redefine the term. As shown in fig. 2 of the Specification, sidewalls 224/222 border or touch the isolation oxide surface at the lower edge of the sidewalls.

#### Conclusion

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the

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advisory action. In no event, however, will the statutory period for reply expire later than

SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the 8.

examiner should be directed to David Vu whose telephone number is (571) 272-1798.

The examiner can normally be reached on Monday-Friday from 8:00am to 5:00pm. If

attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

David Nelms can be reached on (571) 272-1787. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR, Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

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Center (EBC) at 866-217-9197 (toll-free).

PRIMARY EXAMINER

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